



SLOVENSKI STANDARD SIST EN ISO 4491-1:2023

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Kovinski praški - Določevanje kisika z metodami redukcije - 1. del: Splošne smernice (ISO 4491-1:2023)

Metallic powders - Determination of oxygen content by reduction methods - Part 1: General guidelines (ISO 4491-1:2023)

Metallpulver - Bestimmung des Sauerstoffgehaltes durch Reduktionsverfahren - Teil 1: Allgemeine Hinweise (ISO 4491-1:2023)

Poudres métalliques - Dosage de l'oxygène par les méthodes de réduction - Partie 1: Directives générales (ISO 4491-1:2023)

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Metalurgija prahov

Powder metallurgy

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Metallic powders - Determination of oxygen content by reduction methods - Part 1: General guidelines (ISO 4491-1:2023)

Poudres métalliques - Dosage de l'oxygène par les méthodes de réduction - Partie 1: Directives générales (ISO 4491-1:2023)

Metallpulver - Bestimmung des Sauerstoffgehaltes durch Reduktionsverfahren - Teil 1: Allgemeine Hinweise (ISO 4491-1:2023)

This European Standard was approved by CEN on 28 March 2023.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 4491-1:2023) has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" in collaboration with CCMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2023, and conflicting national standards shall be withdrawn at the latest by October 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 24491-1:1993.

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Endorsement notice

The text of ISO 4491-1:2023 has been approved by CEN as EN ISO 4491-1:2023 without any modification.

INTERNATIONAL
STANDARD

ISO
4491-1

Second edition
2023-03

**Metallic powders — Determination
of oxygen content by reduction
methods —**

**Part 1:
General guidelines**

*Poudres métalliques — Dosage de l'oxygène par les méthodes de
réduction —
Partie 1: Directives générales*

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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ISO 4491-1:2023(E)

Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 119, *Powder metallurgy*, Subcommittee SC 2, *Sampling and testing methods for powders (including powders for hardmetals)*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS M11, *Powder metallurgy*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 4491-1:1989), of which it constitutes a minor revision.

The main changes are as follows:

- the normative references in [Clause 2](#) have been updated;
- [Clause 6](#) and [7](#) have changed place;
- editorial corrections and updated ISO format have been applied.

A list of all parts in the ISO 4491 series can be found on the ISO website.

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